## ARCH. BUILDING CONSTRUCTION

QP Code: 27488

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1 /		ours	

			(2 Hours)	(Total Ma	rks:50)	
N.B.:	(2) Figure (3) Assistant (4) Que by V	ares to the right nume suitable add estions on RCC Working Stree M	indicate full itional data, if can be solved Iethod.'	two questions from marks.  necessary and state of either by 'Limit State of the control of the c	elearly the same.	
L.	a) b) c) d) e) f)	ort notes on (any Curing of concrete precast concrete Compaction of Form work for s W/C ratio and V grid floor Flat slab	ete concrete lab,beam and			20
2. (a) (b)	Explain of Design a Span = 3. Live load Floor fine The slab	.5 m =3 KN/sq.m ish=1.0 KN/sq.m rests on 230mm	supported slab	o for the following resembles of se M40 grade concepts the details of reinf	rete and Fe415	3
3. (a) (b)	An RCC 8 bars o 25mm.Ca	f 20mm dia. I	min overall in n tension zo of resistance o	ctions section, overall, is r ne, with an effect f beam. Consider the	tive cover of	3
4.	KN. Assu concrete: with the r TWO WA	me safe bearing on the safe bearing of the saf	capacity of soi steel. Draw a r tails. DO NO?	mm to carry an axia to be 300 KN/M². I heat sketch of the for DESIGN FOR ON	Use M30 grade oting designed NE WAY AND	15
5				al load of 2000 KN ats. Use M40 concre		15

# SEM VI OCT 2015

Q.P. Code: 27482

(2 Hours)

[ Total Marks: 50

#### N.B.: Part I and Part II are compulsory.

- 1. Answer any four out of the given 6 questions (each question carries 5 marks) 20 (a) List the factors influencing migration to urban centers. (b) List ideal characteristics of public open spaces. (c) Define the terms:
  - (i) Rururban (ii) Suburban (iii) Rural (d) With respect to Indian cities, explain growth around primary, secondary and tertiary sectors.
  - (e) List examples of satellite / dormitory towns stating the primary city to which they belong.
  - (f) Give examples of built and natural heritage (two each)
- 2. Attempt any three out of 4 questions (each question carries 10 marks) 30 (a) Define what you understand by urban culture elaborating with an example.
  - (b) What is the impact of urbanization on gender issues?
  - (c) How does lack of planning affect urban cities?
  - (d) In your opinion, how does globalization impact urban life.

### SEM VI OCT 2015. BUILDING SERVICES

QP Code: 27486

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[Total Marks: 50

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	<ul> <li>N. B.: (1) Question No. 1 is compulsory.</li> <li>(2) Solve any three questions from remaining five questions.</li> <li>(3) Draw neat sketches wherever necessary.</li> </ul>	
1.	Write short notes on any four :-	20
	(a) Electrical distribution in high rise buildings	2.0
	(b) Smoke detectors	
1	(c) Escalators	
	(d) Fire hydrants	
	(e) Service floor	
	(f) Use of pressure reducing valves	
	(g) Classification of lifts as per their function	
2.	Explain with neat sketches planning of 'Fire escape staircase' and fire escape chute.	10
3.	Describe the functioning of sprinklers and draw a schematic plan showing sprinkler system for basement car park.	10
4.	Explain any one system of water supply for high rise buildings.	10
5.	Draw neat sketches for any two:  (a) Static tank  (b) Section of a lift along with machine room and lift pit.  (c) Wet riser cum down comer.	10
5.	Explain design of building for fire safety as per national building code.	10

# SEM - VI OCT 2015 THEORY OF STRUCTURES

**QP Code: 27479** 

(3 Hours)

(Total Marks: 50)

(10 marks)

Notes	<ul> <li>(1) Question No. 1 is compulsory.</li> <li>(2) Attempt any three questions from the remaining questions.</li> <li>(3) Assume and state suitable data wherever required.</li> </ul>	
1)	Design a suitable R.C.C. flat slab floor for a ground and six storey height as 4.5M. The building has a column grid of 7.0M x 7.0M.  (a) Draw plan of a typical bay to 1:50 scale showing reinforcement details.	aving floor
	(b) Draw a typical section through column strip and middle strip. Scale 1:50	(10 marks
2)	Explain through proportionate sketches hollow floors.	(10 marks)
3)	Explain the various factors you will consider to select different types	s of slabs. (10 marks)
4)	Explain advantages and disadvantages of precast construction.	(10 marks)
5)	What do you understand by ribbed floor? Show constructional detail floor.	s of ribbed (10 marks)
6)	Explain the measures taken to resist the failure by punching shear fo	r long span

slabs.